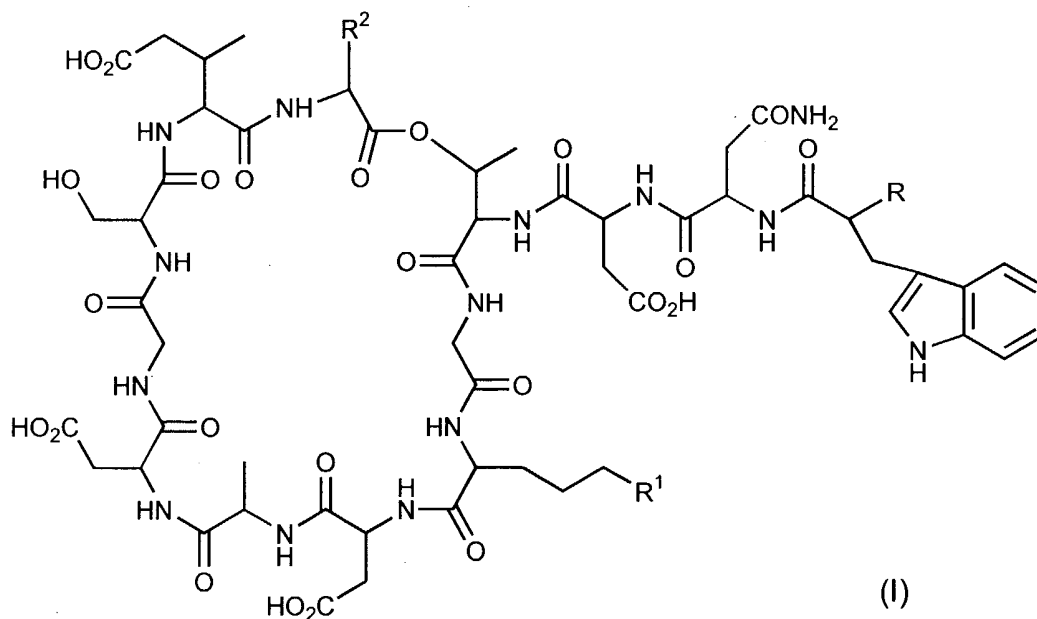


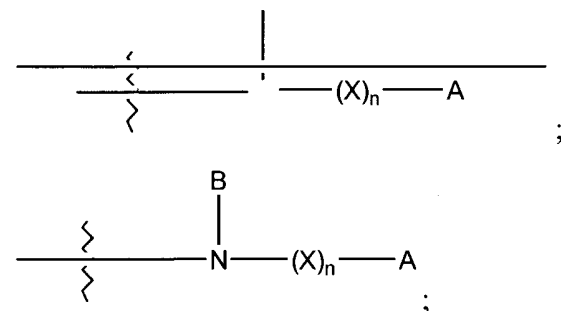
AMENDMENTS TO THE CLAIMS

1. (Currently amended) A compound having the formula (I):



and salts thereof;

wherein R is:



wherein X and X" are independently selected from C=O, C=S, C=NH, C=NR^X, S=O or SO₂;

wherein n is 1;

wherein R^x is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy;

wherein B is X^mR^Y , H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl; and

wherein R^Y is selected from hydrido, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

wherein A is H, NH₂, NHR^A, NR^AR^B, heteroaryl, cycloalkyl or heterocyclyl;

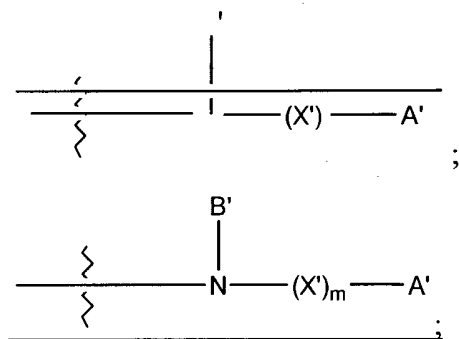
wherein R^A and R^B are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or carboalkoxy;

provided that when B is H and X is C=O, then A is other than

(a) a pyridinyl ring substituted with a single $\text{NHC(O)R}^{\text{D}}$ substituent or

(b) a (C₅-C₆) saturated cycloalkyl ring substituted with a single NHC(O)R^D substituent, wherein R^D is (C₁-C₁₇) unsubstituted alkyl or (C₂-C₁₇) unsubstituted alkenyl;

wherein R¹ is



wherein X' and X''' are independently selected from C=O, C=S, C=NH,

$C=NR^X$, $S=O$ or SO_2 ;

wherein m is 0 or 1;

wherein R^X is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy;

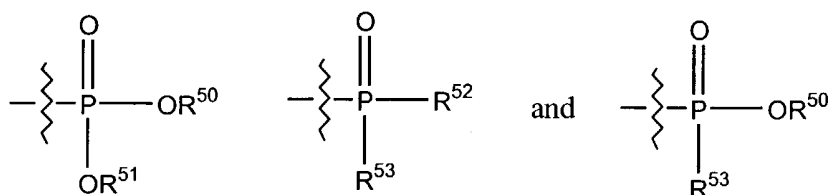
wherein B' is $X'''R^{Y'}$, H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl;

wherein $R^{Y'}$ is selected from hydrido, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

wherein A' is H, NH_2 , $NHR^{A'}$, $NR^{A'}R^{B'}$, alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl or heterocyclyl;

wherein $R^{A'}$ and $R^{B'}$ are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or carboalkoxy;

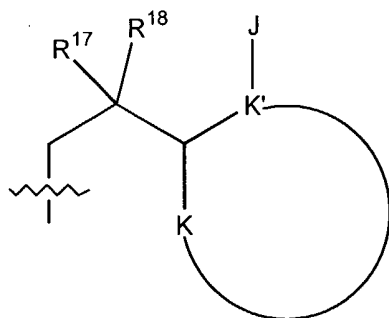
wherein when m is 0, then A' is additionally selected from the group consisting of:



wherein each of R^{50} - R^{53} is independently selected from C_1 - C_{15} alkyl;

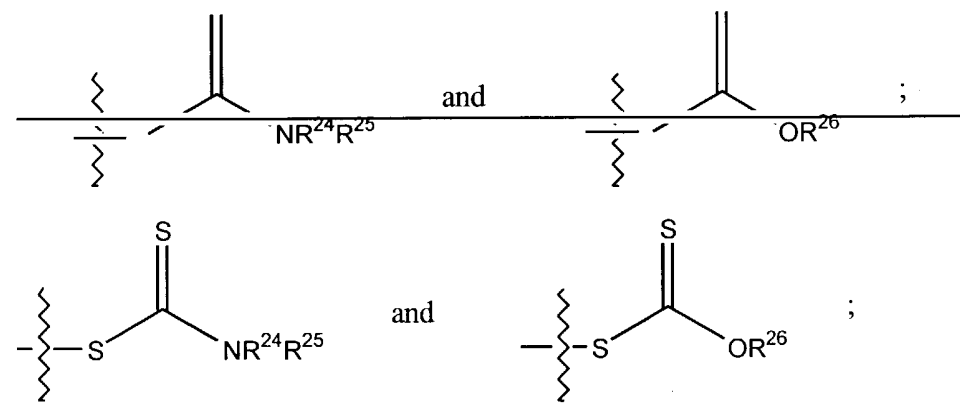
alternatively, wherein B' and A' together form a 5-7 membered heterocyclic or heteroaryl ring;

wherein R^2 is



wherein K and K' together form a C₃-C₇ cycloalkyl or heterocyclyl ring or a C₅-C₁₀ aryl or heteroaryl ring;

wherein J is selected from the group consisting of hydrido, amino, NHR^J, NR^JR^K, alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylamino, hydroxyl, thio, alkylthio, alkenylthio, sulfinyl, sulfonyl, azido, cyano, halo,



wherein each of R²⁴, R²⁵, and R²⁶ is independently selected from the group consisting of alkyl, cycloalkyl, heterocyclyl, aryl and heteroaryl; or R²⁴ and R²⁵ together form a 5-8 membered heterocyclyl ring;

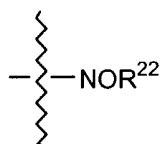
wherein R^J and R^K are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl; or

alternatively, wherein J, together with R¹⁷, forms a 5-8 membered

heterocyclyl or cycloalkyl ring; or

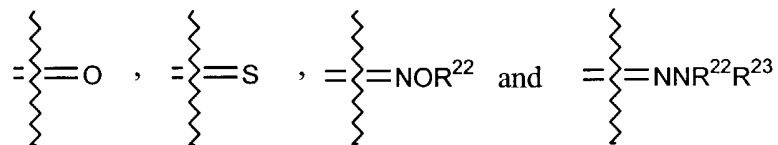
alternatively, wherein J, together with both R¹⁷ and R¹⁸, forms a 5-8 membered aryl, cycloalkyl, heterocyclyl or heteroaryl ring; and

wherein each of R¹⁷ and R¹⁸ is independently selected from the group consisting of hydrido, halo, hydroxyl, alkoxy, amino, thio, sulfinyl, sulfonyl and



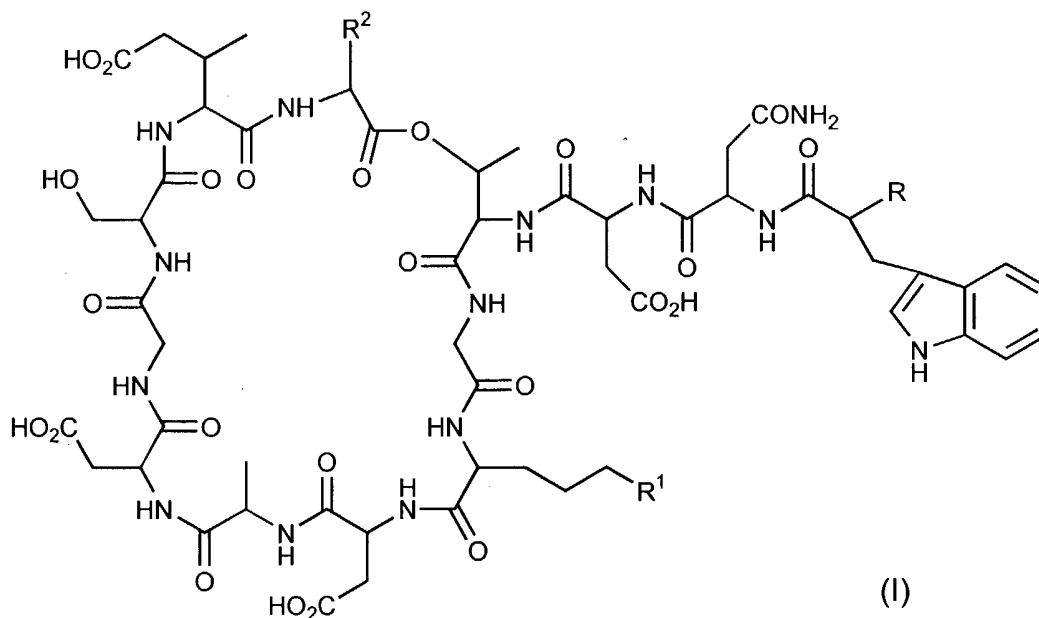
; or

wherein R¹⁷ and R¹⁸ taken together can form a group consisting of ketal, thioketal,



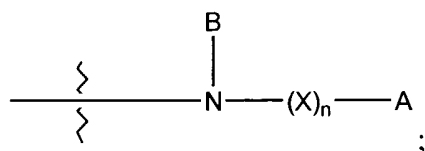
wherein each of R²² and R²³ is independently selected from the group consisting of hydrido and alkyl.

2. (Currently amended) A compound having the formula (I):



and salts thereof;

wherein R is:



wherein X and X" are independently selected from C=O, C=S, C=NH, C=NR^X, S=O or SO₂;

wherein n is 1;

wherein R^X is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy;

wherein B is X"R^Y, H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl; and

wherein R^Y is selected from hydrido, alkyl, alkenyl, alkynyl, aryl,

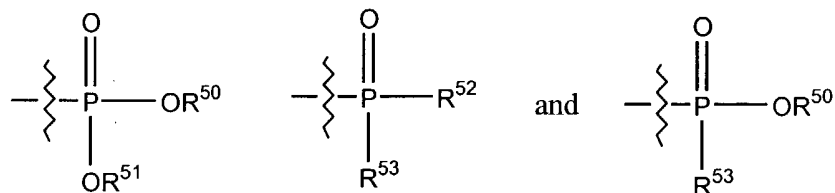
or heterocyclyl;

wherein $R^{Y'}$ is selected from hydrido, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

wherein A' is H, NH_2 , $NHR^{A'}$, $NR^{A'}R^{B'}$, alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl or heterocyclyl;

wherein $R^{A'}$ and $R^{B'}$ are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or carboalkoxy;

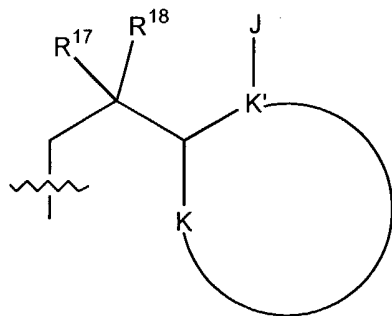
wherein when m is 0, then A' is additionally selected from the group consisting of:



wherein each of R^{50} - R^{53} is independently selected from C_1 - C_{15} alkyl;

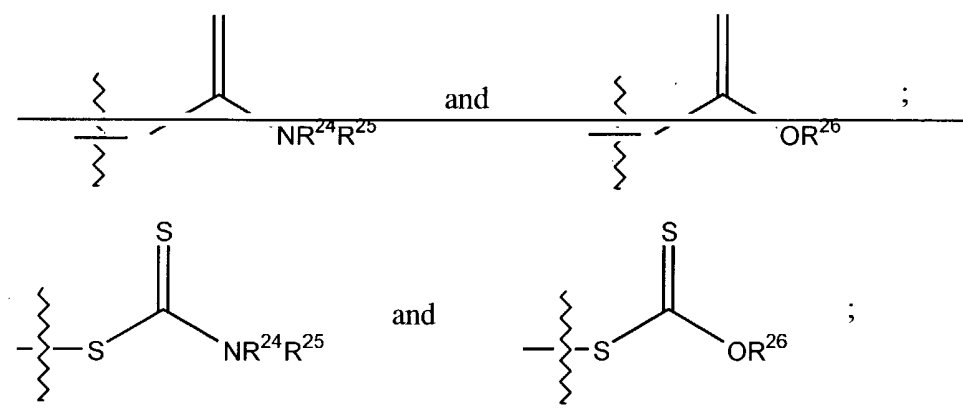
alternatively, wherein B' and A' together form a 5-7 membered heterocyclic or heteroaryl ring;

wherein R^2 is



wherein K and K' together form a C_3 - C_7 cycloalkyl or heterocyclyl ring or a C_5 - C_{10} aryl or heteroaryl ring;

wherein J is selected from the group consisting of hydrido, amino, NHR^J , NR^JR^K , alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylamino, hydroxyl, thio, alkylthio, alkenylthio, sulfinyl, sulfonyl, azido, cyano, halo,



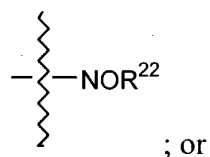
wherein each of R²⁴, R²⁵, and R²⁶ is independently selected from the group consisting of alkyl, cycloalkyl, heterocyclyl, aryl and heteroaryl; or R²⁴ and R²⁵ together form a 5-8 membered heterocyclyl ring;

wherein R^J and R^K are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl; or

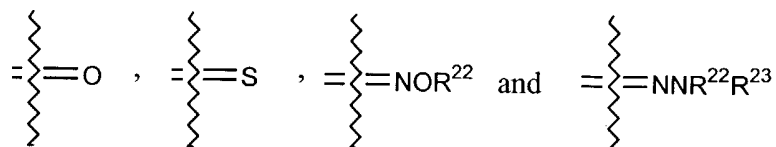
alternatively, wherein J, together with R¹⁷, forms a 5-8 membered heterocyclyl or cycloalkyl ring; or

alternatively, wherein J, together with both R¹⁷ and R¹⁸, forms a 5-8 membered aryl, cycloalkyl, heterocyclyl or heteroaryl ring; and

wherein each of R¹⁷ and R¹⁸ is independently selected from the group consisting of hydrido, halo, hydroxyl, alkoxy, amino, thio, sulfinyl, sulfonyl and



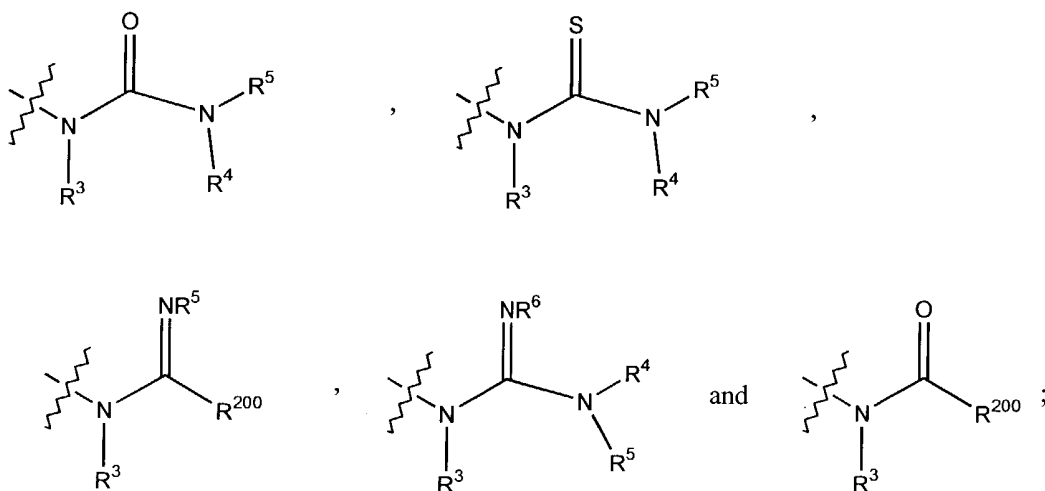
wherein R^{17} and R^{18} taken together can form a group consisting of ketal, thioketal,



wherein each of R^{22} and R^{23} is independently selected from the group consisting of hydrido and alkyl.

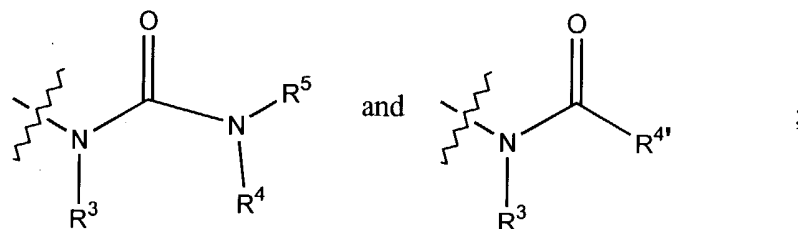
Claims 3-4 (Canceled)

5. (Previously presented) The compound according to claim 1, wherein R is selected from the group consisting of:



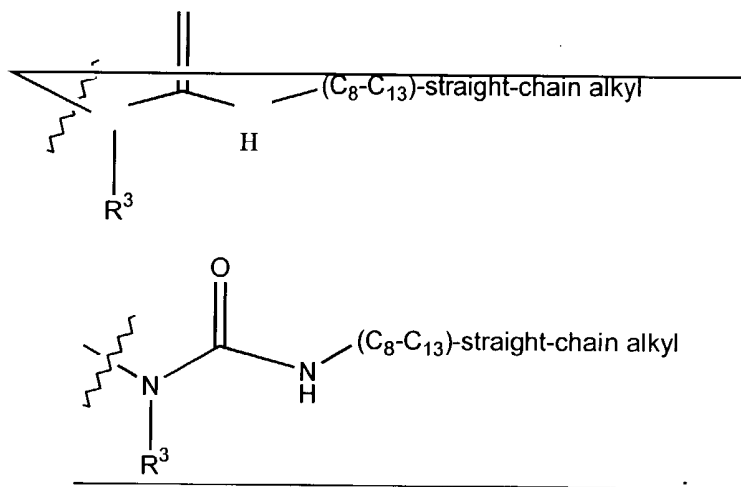
wherein each of R^3 , R^4 , R^5 , and R^6 is independently selected from the group consisting of hydrido, alkyl, aryl, heterocyclyl and heteroaryl, and wherein R^{200} is selected from the group consisting of hydrido, heterocyclyl, and heteroaryl.

6. (Previously presented) The compound according to claim 5, wherein R is selected from

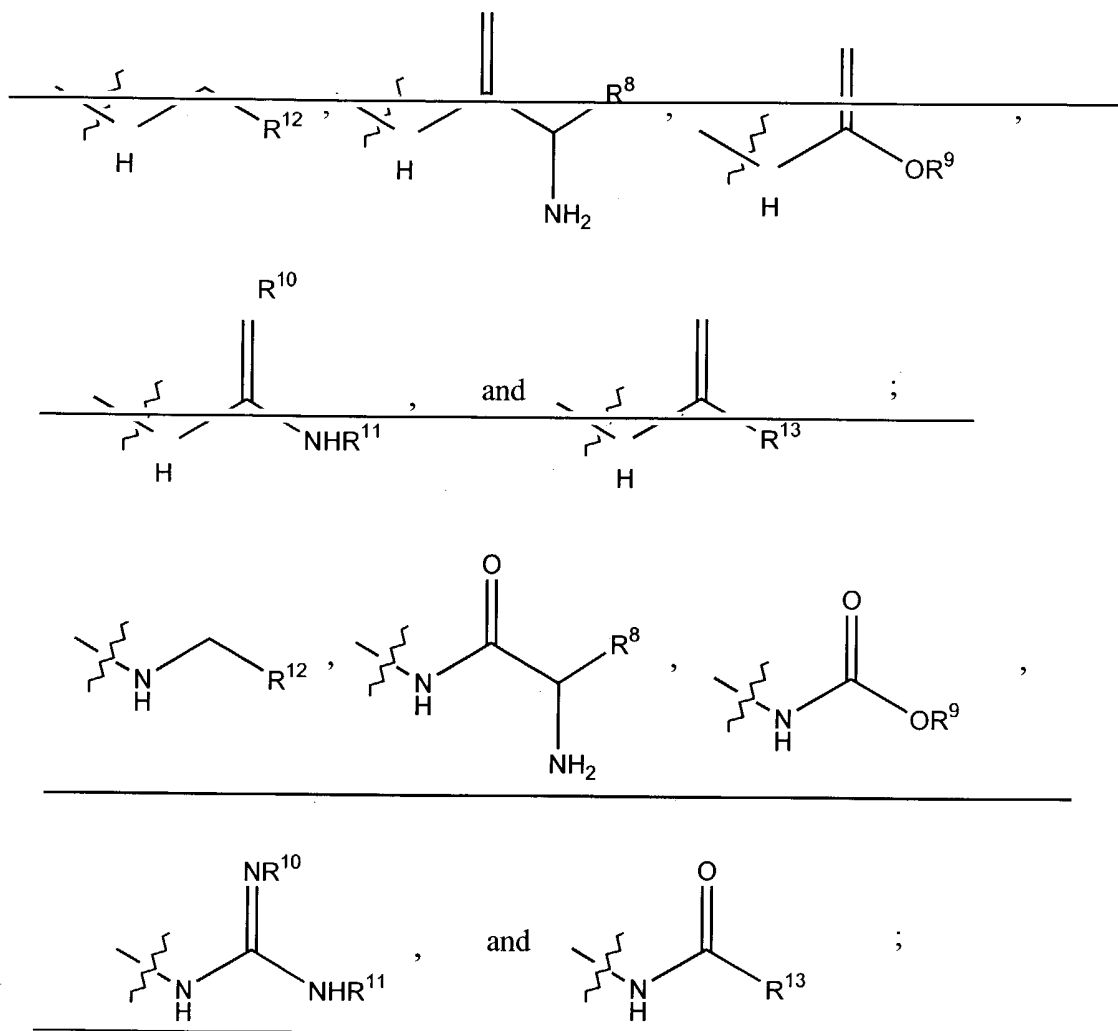


and wherein R^{4'} is selected from the group consisting of heteroaryl, and heterocyclyl.

7. (Currently amended) The compound according to claim 6, wherein R is



8. (Currently amended) The compound according to either of claims 1 or 2, wherein R¹ is selected from the group consisting of:



wherein R^8 is selected from a natural amino acid side chain or an amino acid side chain that is not naturally occurring;

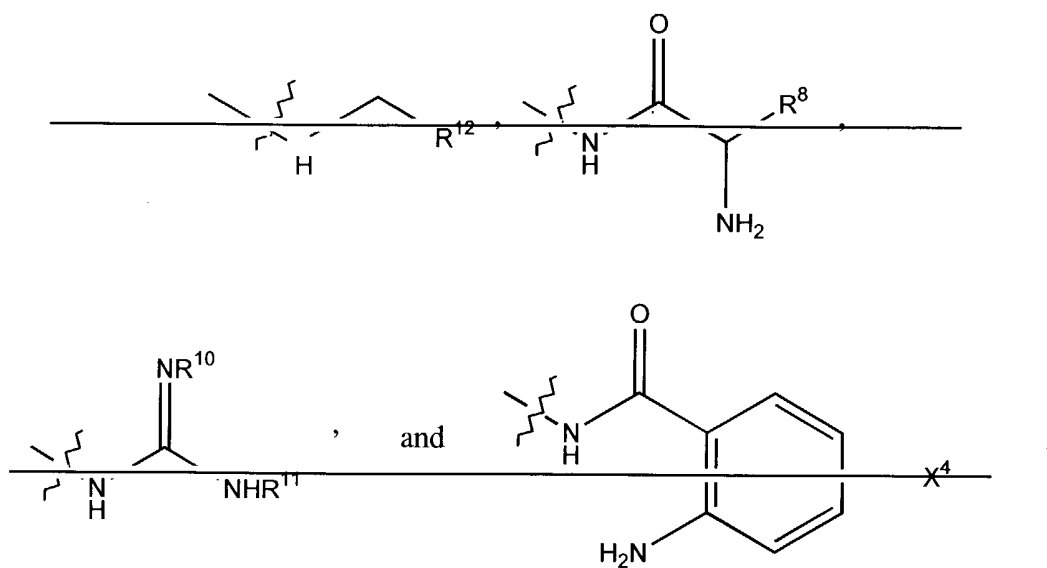
wherein each of R^9 , R^{10} and R^{11} is selected from the group consisting of hydrido, alkyl, aryl, heterocyclyl and heteroaryl;

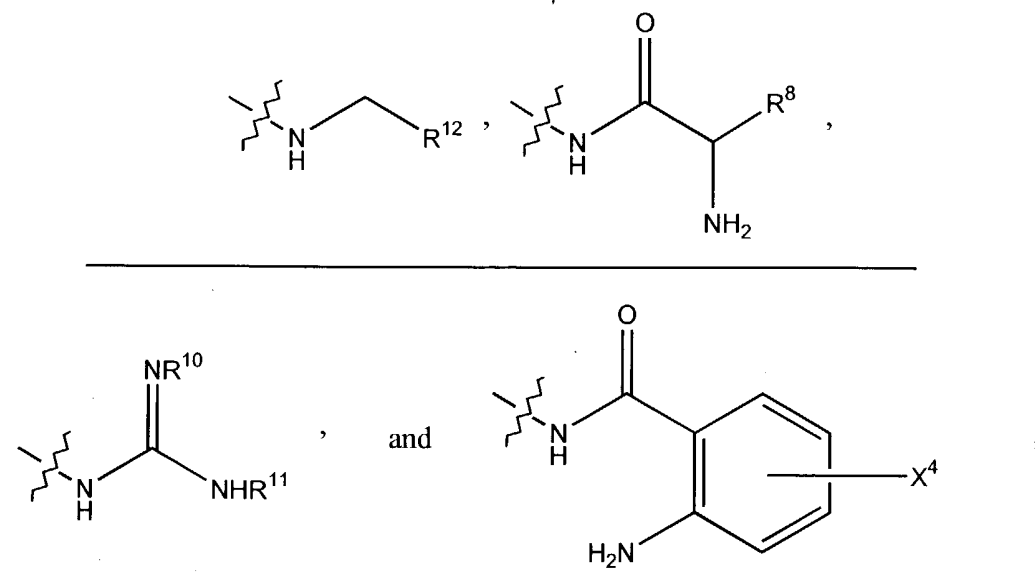
wherein R^{12} is selected from the group consisting of heterocyclyl,

heteroaryl, aryl, and alkyl and

wherein R^{13} is selected from (C_1 - C_3 -alkyl) and aryl.

9. (Currently amended) The compound according to claim 8, wherein R^1 is selected from the group consisting of:



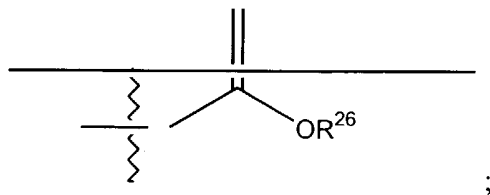


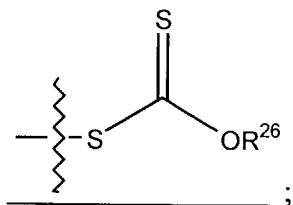
wherein R^8 is selected from tryptophan side chain and lysine side chain;
 wherein each of R^{10} and R^{11} is independently selected from hydrido and alkyl;

wherein R^{12} is selected from imidazolyl, N-methylimidazolyl, indolyl, quinolinyl, benzyloxybenzyl, and benzylpiperidenylbenzyl; and

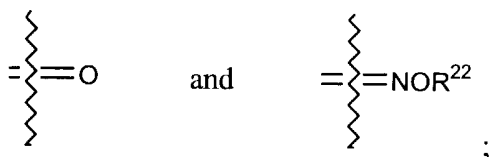
wherein X^4 is fluoro or trifluoromethyl.

10. (Currently amended) The compound according to either of claims 1 or 2, wherein J is selected from the group consisting of hydrido, amino, azido and





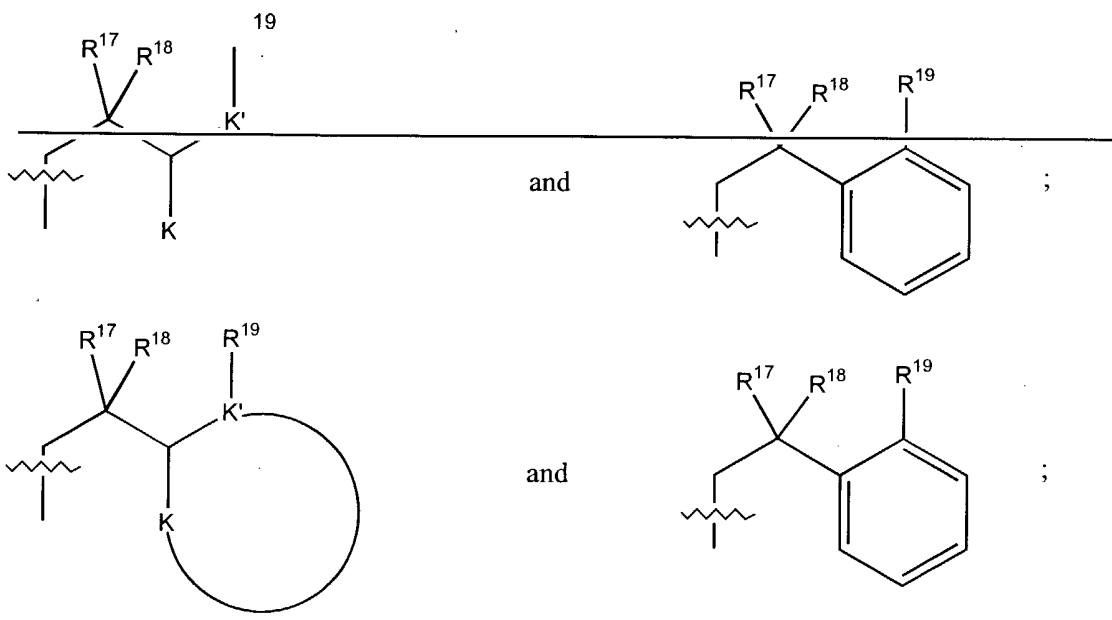
wherein R^{17} and R^{18} taken together form a group selected from ketal,



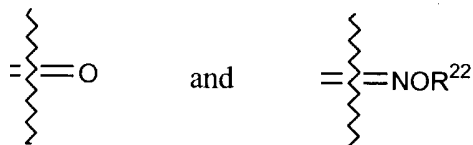
or wherein R^{17} is hydroxyl when R^{18} is hydrido;

or wherein J, together with R^{17} , forms a heterocyclyl ring.

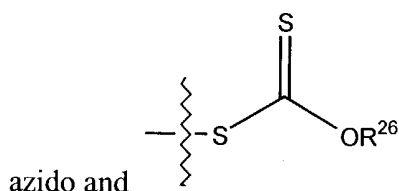
11. (Currently amended) The compound according to claim 10, wherein R^2 is selected from the group consisting of



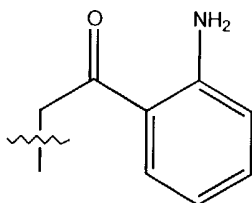
wherein R^{17} and R^{18} taken together form a group selected from



, wherein R^{22} is selected from the group consisting of H and alkyl; and wherein R^{19} is selected from the group consisting of hydrido, amino,



12. (Original) The compound according to claim 11, wherein R^2 is



Claims 13-14 (Canceled)

15. (Previously presented) A pharmaceutical composition comprising the compound according to either of claims 1 or 2 and a pharmaceutically acceptable carrier.

16. (Currently amended) A method of treating a bacterial infection in a subject, comprising the step of administering a therapeutically-effective amount of the pharmaceutical composition according to claim 15 to a subject in need thereof for a time and under conditions effective to ~~control or eliminate~~ ameliorate said bacterial infection.

17. (Previously presented) The method according to claim 16, wherein said subject is selected from the group consisting of a human, an animal, a cell culture and a plant.

18. (Original) The method according to claim 16, wherein said bacterial infection is caused by a gram-positive bacteria.

19. (Original) The method according to claim 18, wherein said bacteria is an antibiotic-resistant bacteria.

20. (Original) The method according to claim 19, wherein said antibiotic-resistant bacteria are resistant to an antibiotic selected from the group consisting of vancomycin, methicillin, glycopeptide antibiotics, penicillin and daptomycin.

21. (Original) The method according to claim 16, further comprising the step of co-administering more than one compound of Formula (I) to a subject in need thereof.

22. (Original) The method according to claim 16, further comprising the step of co-administering an antimicrobial agent other than a compound of Formula (I) to a subject in need thereof.

23. (Currently amended) The method according to claim 22, wherein said antimicrobial agent is selected from the group consisting of penicillins, carbapenems, cephalosporins, aminoglycosides, bacitracin, gramicidin, mupirocin, chloramphenicol,

thiamphenicol, fusidate sodium, lincomycin, clindamycin, macrolides, novobiocin, polymyxins, rifamycins, spectinomycin, tetracyclines, vancomycin, teicoplanin, streptogramins, anti-folate agents, trimethoprim, pyrimethamine, synthetic antibacterials, nitroimidazoles, quinolones, fluoroquinolones, isoniazid, ethambutol, pyrazinamide, para-aminosalicylic acid (PAS), cycloserine, capreomycin, ethionamide, prothionamide, thiacetazone, viomycin, everninomicin, glycopeptide, glycylcycline, ketolides, oxazolidinones, imipenen, amikacin, netilmicin, fosfomycin, gentamicin, ceftriaxone, Zircin (56-deacetyl-57-demethyl-45-O-de(2-methyl-1-oxopropyl)-12-O-(2,3,6-trideoxy-3-C-methyl-4-O-methyl-3-nitro- α -L-arabino-hexopyranosyl)flambamycin), LY333328 (oritavancin), Linezolid (N-[[[(5S)-3-[3-fluoro-4-(4-morpholinyl) phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide), Synercid (dalbapristin-quinupristin), Aztreonam (2-[[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidiny] amino]-2-oxoethylidene]amino]oxy]-2-methyl-propanoic acid), Metronidazole (2-methyl-5-nitro-1H-imidazole-1-ethanol), Epiroprim (5-[[[3,5-diethoxy-4-(1H-pyrrol-1-yl)phenyl]methyl]-2,4-pyrimidinediamine), OCA-983 (1-[[[(2S)-2-amino-3-methyl-1-oxobutyl]amino]-2,5-anhydro-3-S-[(4R,5S,6S)-2-carboxy-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]-1,4-dideoxy-3-thio-D-threo-pentitol), GV-143253 (trinem), Sanfetrinem ((1S, 5S, 8aS, 8bR)-1, 2, 5, 6, 7, 8, 8a, 8b-octahydro-1-[[[(1R)-1-hydroxyethyl]-5-methoxy-2-oxo-azeto[2,1-a]isoindole-4-carboxylic acid), CS-834 ((4R, 5S, 6S)-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-3-[[[(3R)-5-oxo-3-pyrrolidinyl]thio]-1-azabicyclo [3.2.0]hept-2-ene-2-carboxylic acid (2,2-dimethyl-1-oxopropoxy)methyl ester), Biapenem (6-[[[(4R,5S,6S)-2-carboxy-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]thio]-6, 7-dihydro-5H-pyrazolo[1,2-a][1,2,4]triazol-4-ium inner salt), KA 159 (stipiamide), Dynemicin A ((1S,4R,4aR,14S,14aS,18Z)-1,4,7,12,13, 14-hexahydro-6,8,11-trihydroxy-3-methoxy-1-

methyl-7,12-dioxo-4a,14a-epoxy-4,14-[3]hexene[1,5]diynonaphtho[2,3-c]phenanthridine-2-carboxylic acid), DX8739 ((4R,5S,6S)-3-[[[(3S,5S)-5-[[4-[(2S)-5-amino-2-hydroxy-1-oxopentyl]-1-piperazinyl]carbonyl]-3-pyrrolidinyl]thio]-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), DU 6681 ((4R,5S,6S)-3-[[[(6S)-6,7-dihydro-5H-pyrrolo[1,2-a]imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0] hept-2-ene-2-carboxylic acid), Cefluprenam ((2E)-N-(2-amino-2-oxoethyl)-3-[(6R,7R)-7-[[[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)](fluoro methoxy)imino]acetyl] amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]-N-ethyl-N-methyl-2-propen-1-aminium inner salt), ER 35786 ((4R,5S,6S)-6-[(1R)-1-hydroxyethyl]-3-[[[(3S,5S)-5-[(R)-hydroxy(3R)-3-pyrrolidinylmethyl]-3-pyrrolidinyl]thio]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid monohydrochloride), Cefoselis ((6R,7R)-7-[[[(2Z)-(2-amino-4-thiazolyl)(methoxy imino)acetyl]amino]-3-[[2,3-dihydro-2-(2-hydroxyethyl)-3-imino-1H-pyrazol-1-yl]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid), Sanfetrinem celexetil ((1S,5S,8aS,8bR)-1,2,5,6,7,8,8a,8b-octahydro-1-[(1R)-1-hydroxyethyl]-5-methoxy-2-oxo-azeto[2,1-a]isoindole-4-carboxylic acid 1-[(cyclohexyloxy)carbonyl]oxy]ethyl ester), Cefpirome (1-[[[(6R,7R)-7-[[[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl] amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-6,7-dihydro-5H-cyclopenta[b]pyridinium inner salt), HMR-3647 (3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl-alpha-L-ribo-hexopyranosyl)oxy]-11,12-dideoxy-6-O-methyl-3-oxo-12,11-[oxycarbonyl[[4-[4-(3-pyridinyl)-1H-imidazol-1-yl]butyl]imino]]-erythromycin), RU-59863 (C-7 catechol substituted cephalosporin), KP 736 ((6R,7R)- 7-[[[(2Z)-(2-amino-4-thiazolyl)][(1,4-dihydro-1,5-dihydroxy-4-oxo-2-pyridinyl)methoxy] imino]acetyl]amino]-8-oxo-3-[(1,2,3-thiadiazol-5-ylthio)methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid disodium salt), Rifalazil (1',4-

didehydro-1-deoxy-1,4-dihydro-3'-hydroxy-5'-[4-(2-methylpropyl)-1-piperazinyl]-1-oxo-rifamycin VIII), MEN 10700 ((5R,6S)-3-[[2-amino-2-oxoethyl)methylamino]methyl]-6-[(1R)-1-hydroxyethyl]-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), Lenapenem ((4R,5S,6S)-6-[(1R)-1-hydroxyethyl]-3-[[3S,5S)-5-[(1R)-1-hydroxy-3-(methylamino)propyl]-3-pyrrolidinyl]thio]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), BO 2502A ((4R,5S,6S)-3-[(2S,3'S,4S)-[2,3'-bipyrrolidin]-4-ylthio]-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), NE-1530 (3'-sialyllacto-N-neotetraose), PR 39 (L-arginyl-L-arginyl-L-arginyl-L-prolyl-L-arginyl-L-prolyl-L-prolyl-L-tyrosyl-L-leucyl-L-prolyl-L-arginyl-L-prolyl-L-arginyl-L-prolyl-L-prolyl-L-prolyl-L-phenylalanyl-L-phenylalanyl-L-prolyl-L-prolyl-L-arginyl-L-leucyl-L-prolyl-L-prolyl-L-arginyl-L-isoleucyl-L-prolyl-L-prolyl-L-phenylalanyl-L-prolyl-L-prolyl-L-arginyl-L-phenylalanyl-L-prolyl-L-prolyl-L-arginyl-L-phenylalanyl-L-prolinamide [SEQ ID NO: 1] [--SEQ ID NO: 1--]), K130 (5-[[4-[3-[[4-[(4-aminophenyl)sulfonyl]phenyl]amino]propoxy]-3,5-dimethoxyphenyl] methyl]-2,4-pyrimidinediamine), PD 138312 ((R)- 7-[3-(1-amino-1-methylethyl)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid), PD 140248 (7-[(3R)-3-[(1S)-1-aminoethyl]-1-pyrrolidinyl]-1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid), CP 111905 (5-deoxy-5-[[2E)-3-[3-hydroxy-4-(2-propenyloxy)phenyl]-2-methyl-1-oxo-2-propenyl]amino]-1,2-O-methylene-D-neo-inositol), Sulopenem ((5R,6S)-6-[(1R)-1-hydroxyethyl]-7-oxo-3-[(1R,3S)-tetrahydro-1-oxido-3-thienyl]thio]-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), ritipenam acoxyl ((5R,6R)-3-[[aminocarbonyl]oxy]methyl)-6-[(1R)-1-hydroxyethyl]-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid (acetyloxy)methyl ester), RO-65-5788 ((6R,7R)- 7-[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)(hydroxyimino)acetyl]amino]-3-[(E)-

[(3'R)-1'-[[[(5-methyl-2-oxo-1,3-dioxol-4-yl)methoxy]carbonyl]-2-oxo[1,3'-bipyrrolidin]-3-ylidene]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monosodium salt), Sch-40832 (N-[[48-[1-[[2,6-dideoxy-3-O-(2,6-dideoxy-D-arabino-hexopyranosyl)-D-arabino-hexopyranosyl]oxy]ethyl]-15-ethylidene-1,3a,4,5,10,11,12,13,14,15,19,20,21,22,28, 29,41,42-octadecahydro-41-hydroxy-12,45-bis(1-hydroxyethyl)-1-(hydroxymethyl)-22-(1-hydroxy-1-methylpropyl)-36-methyl-51,54,57-tris(methylene)-3-(methylthio)-10,13,20,27,38,49,52,55,58-nonaixo-18H,27H-5a,29-(iminoethaniminoethanimino ethaniminoethanimino[7,2]quinolinomethanoxy methano)-9,6:19,16:26,23:33,30-tetranitrilo-16H,33aH-imidazo[1',5':1,6]pyrido [3,2-m][1,11,17,24,4,7,20, 27]tetrathiatetraazacyclotriacontin-1-yl]carbonyl]-2,3-didehydroalanyl-2,3-didehydro-alanine methyl ester stereoisomer), micacocidin A ((OC-6-26-A)-[(4S)-2-[(2S)-2-[(2R,4R)-2-[(4R)-4,5-dihydro-2-[2-(hydroxy-.kappa.O)-6-pentylphenyl]-4-thiazolyl-.kappa.N3]-3-methyl-4-thiazolidinyl-.kappa.N3]-2-(hydroxy-.kappa.O)-1,1-dimethylethyl]-4,5-dihydro-4-methyl-4-thiazolecarboxylato(2-)-.kappa.N3,.kappa.O4]-Zinc), SR-15402 ((1S,5S,8aS,8bR)-1,2,5,6,7,8,8a,8b-octahydro-1-[(1R)-1-hydroxyethyl]-2-oxo-5-[(3S)-3-pyrrolidinylthio]-azeto[2,1-a]isoindole-4-carboxylic acid TOC 39 (1-(2-amino-2-oxoethyl)-4-[[[(1E)-2-[(6R,7R)-7-[[[(2Z)-(2-amino-4-thiazolyl)(hydroxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]ethenyl]thio]-pyridinium inner salt), carumonam ([[(Z)-[2-[(2S,3S)-2-[[[(aminocarbonyl)oxy]methyl]-4-oxo-1-sulfo-3-azetidiny]amino]-1-(2-amino-4-thiazolyl)-2-oxoethylidene]amino]oxy]-acetic acid), Cefozopran (1-[[[(6R,7R)-7-[[[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)(methoxy imino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-imidazo[1,2-b]pyridazinium inner salt), Cefetamet pivoxil ((6R,7R)-7-[[[(2Z)-(2-amino-4-thiazolyl)(methoxy imino)acetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic

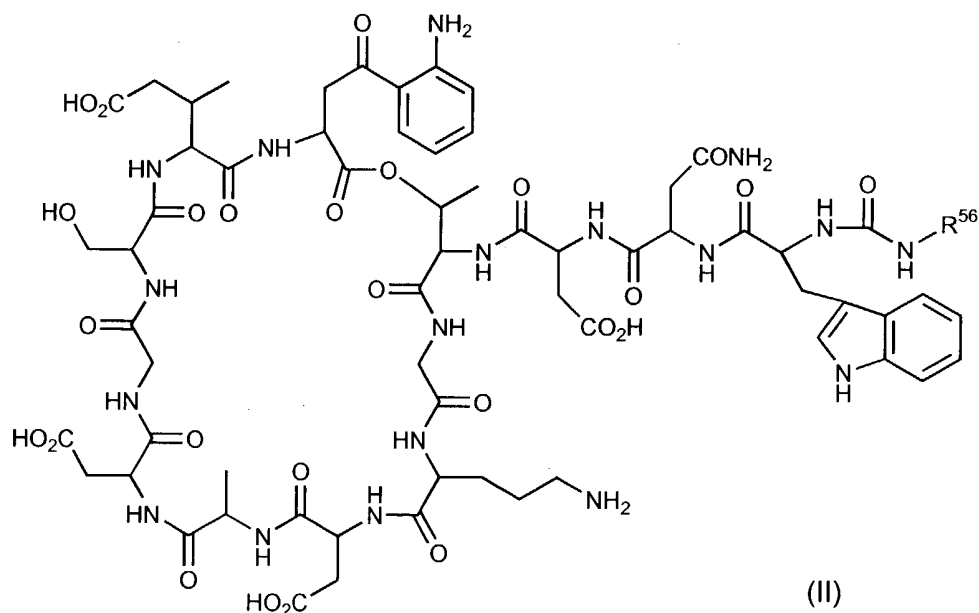
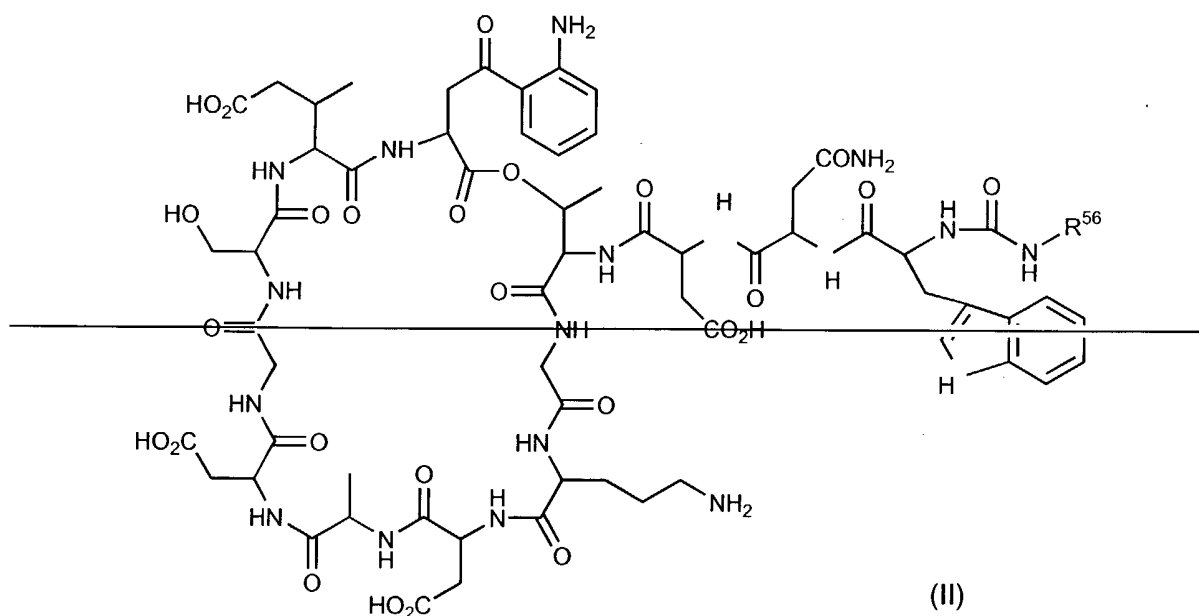
acid (2,2-dimethyl-1-oxopropoxy)methyl ester), and T 3811 (des-F(6)-quinolone).

24. (Previously presented) The method according to claim 22, wherein said antimicrobial agent is selected from the group consisting of imipenen, amikacin, netilmicin, fosfomycin, gentamicin, ceftriaxone, teicoplanin, Ziracin (56-deacetyl-57-demethyl-45-O-de(2-methyl-1-oxopropyl)-12-O-(2,3,6-trideoxy-3-C-methyl-4-O-methyl-3-nitro- α -L-arabino-hexopyranosyl)flambamycin), LY333328 (oritavancin), HMR-3647 (3-de[(2,6-dideoxy-3-C-methyl-3-O-methyl- α -L-ribo-hexopyranosyl)oxy]-11,12-dideoxy-6-O-methyl-3-oxo-12,11-[oxycarbonyl[[4-[4-(3-pyridinyl)-1H-imidazol-1-yl]butyl]imino]]-erythromycin), Linezolid (N-[[[(5S)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide), Synercid (dalfopristin-quinupristin), Aztreonam (2-[[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidiny] amino]-2-oxoethylidene]amino]oxy]-2-methyl-propanoic acid), and Metronidazole (2-methyl-5-nitro-1H-imidazole-1-ethanol).

25. (Previously presented) The method according to claim 17, wherein said subject is selected from the group consisting of a human and an animal.

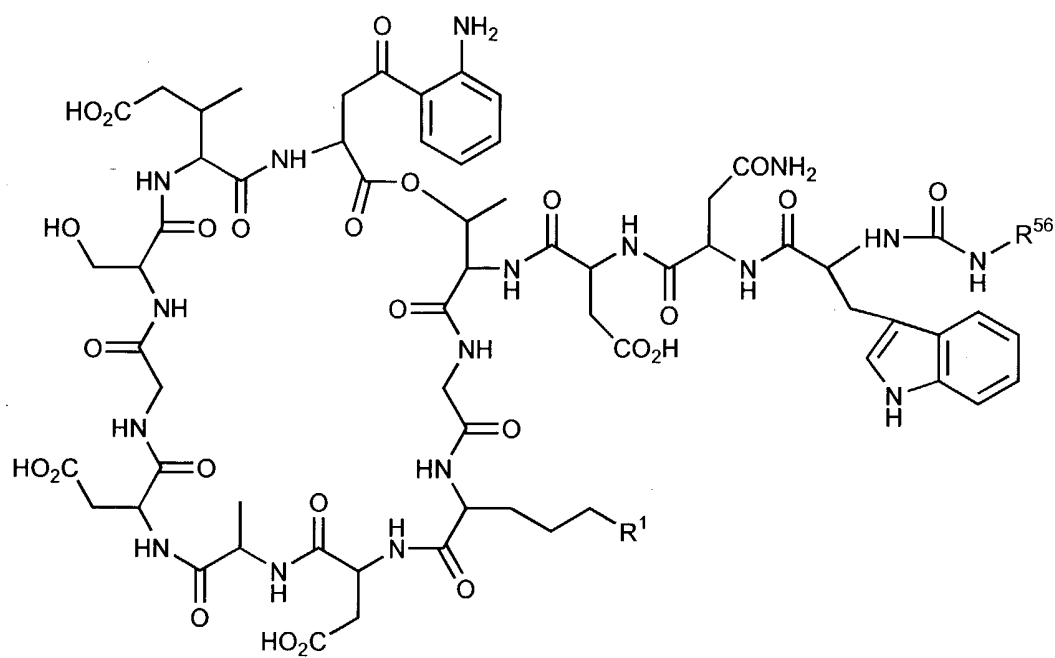
26. (Original) The method according to claim 25, wherein said subject is a human.

27. (Currently amended) The compound of claim 1 having the formula (II):



Claims 28-29 (Canceled)

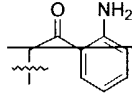
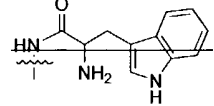
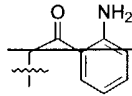
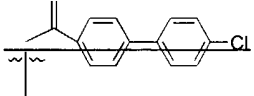
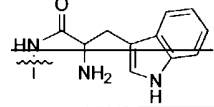
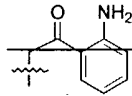
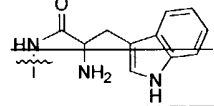
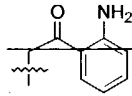
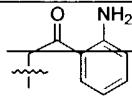
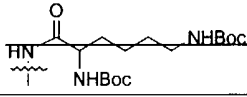
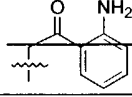
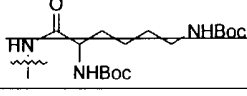
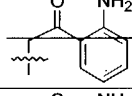
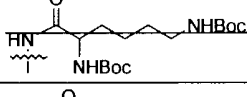
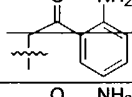
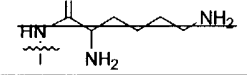
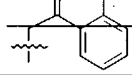
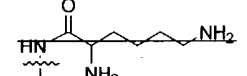
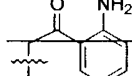
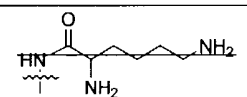
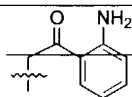
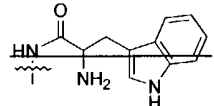
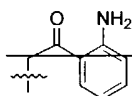
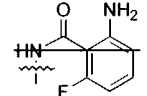
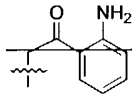
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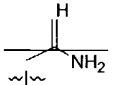
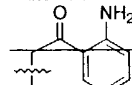
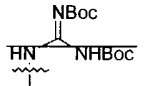
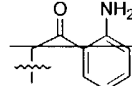
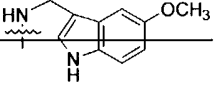
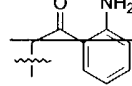
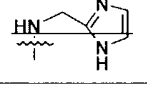
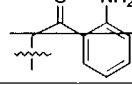
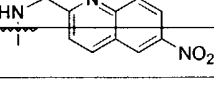
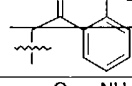
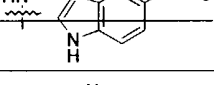
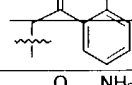
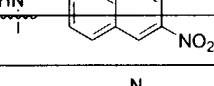
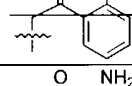
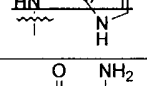
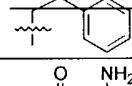
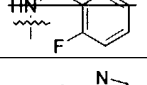
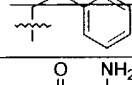
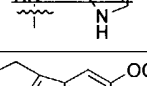
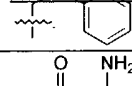
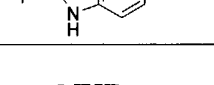
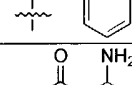
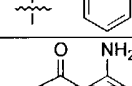
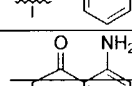
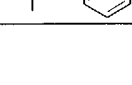


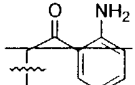
wherein said method comprises treating a compound of claim 27 with a reagent selected from the group consisting of an isocyanates, isothiocyanates, activated esters, acid chlorides, sulfonylchlorides, activated sulfonamides, heterocycles bearing readily displaceable groups, imidates, and lactones; or alternatively, treating a compound of claim 27 reductively with an aldehyde.

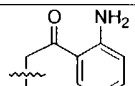
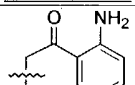
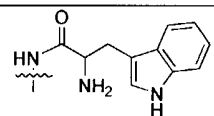
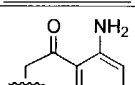
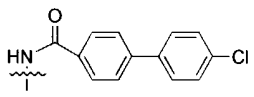
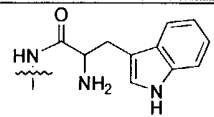
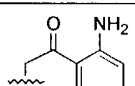
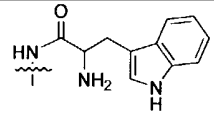
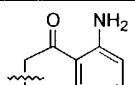
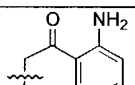
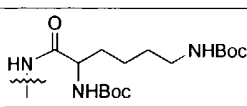
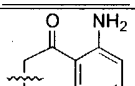
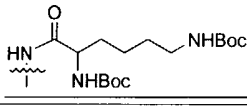
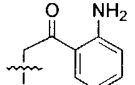
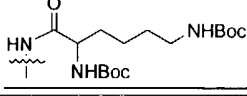
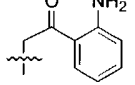
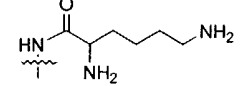
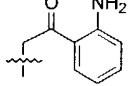
31. (Currently amended) The compound according to either of claims 1 or 2 wherein said compound is selected from

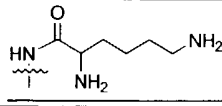
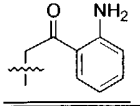
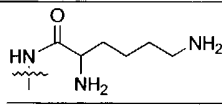
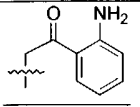
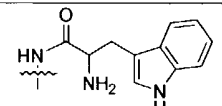
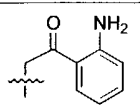
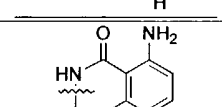
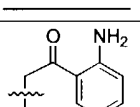
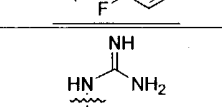
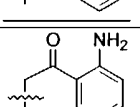
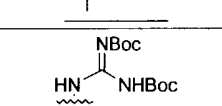
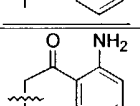
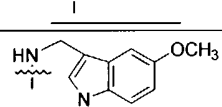
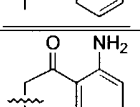
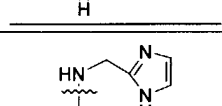
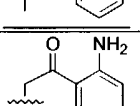
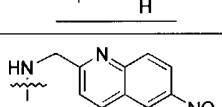
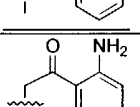
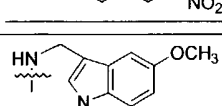
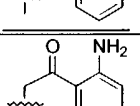
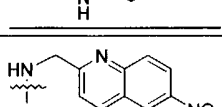
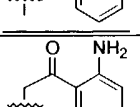
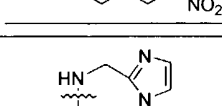
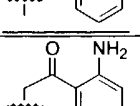
Cpd #	R	R ¹	R ²
1	NHCONH(CH ₂) ₇ CH ₃	NH ₂	

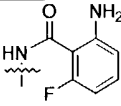
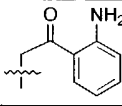
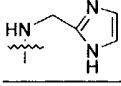
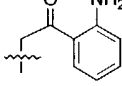
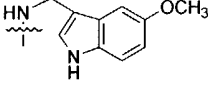
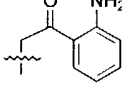
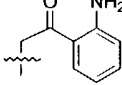
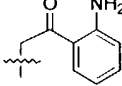
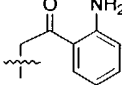
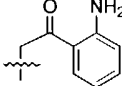
2	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$	NH_2	
3	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
5			
17	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
48	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$	NH_2	
56	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
57	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
58	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
62	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
63	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
64	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
69	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
70	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		

71	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
75	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
76	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
77	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
78	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
87	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
88	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
89	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
108	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
113	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
114	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
117	$\text{NHCONH}(\text{CH}_2)_8\text{CH}_3$	NHBoc	
118	$\text{NHCONH}(\text{CH}_2)_8\text{CH}_3$	NH_2	
119	$\text{NHCONH}(\text{CH}_2)_9\text{CH}_3$	NHBoc	

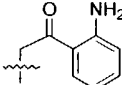
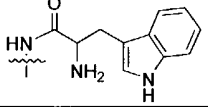
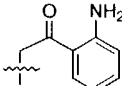
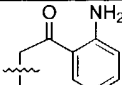
120	$\text{NHCONH}(\text{CH}_2)_9\text{CH}_3$	NH_2	
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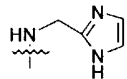
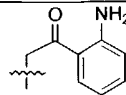
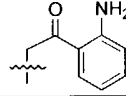
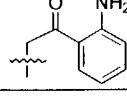
Cpd #	R	R ¹	R ²
<u>1</u>	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$	NH_2	
<u>2</u>	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$	NH_2	
<u>3</u>	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
<u>5</u>			
<u>17</u>	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
<u>48</u>	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$	NH_2	
<u>56</u>	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		
<u>57</u>	$\text{NHCONH}(\text{CH}_2)_{10}\text{CH}_3$		
<u>58</u>	$\text{NHCONH}(\text{CH}_2)_{11}\text{CH}_3$		
<u>62</u>	$\text{NHCONH}(\text{CH}_2)_7\text{CH}_3$		

<u>63</u>	<u>NHCONH(CH₂)₁₀CH₃</u>		
<u>64</u>	<u>NHCONH(CH₂)₁₁CH₃</u>		
<u>69</u>	<u>NHCONH(CH₂)₇CH₃</u>		
<u>70</u>	<u>NHCONH(CH₂)₇CH₃</u>		
<u>71</u>	<u>NHCONH(CH₂)₇CH₃</u>		
<u>75</u>	<u>NHCONH(CH₂)₁₀CH₃</u>		
<u>76</u>	<u>NHCONH(CH₂)₇CH₃</u>		
<u>77</u>	<u>NHCONH(CH₂)₇CH₃</u>		
<u>78</u>	<u>NHCONH(CH₂)₇CH₃</u>		
<u>87</u>	<u>NHCONH(CH₂)₁₁CH₃</u>		
<u>88</u>	<u>NHCONH(CH₂)₁₁CH₃</u>		
<u>89</u>	<u>NHCONH(CH₂)₁₁CH₃</u>		

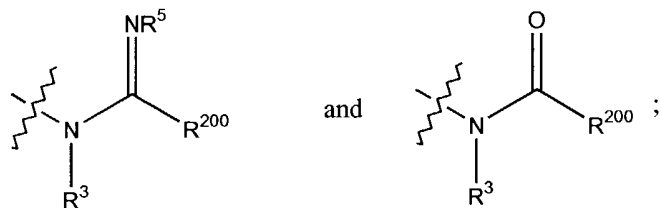
<u>108</u>	<u>NHCONH(CH₂)₁₀CH₃</u>		
<u>113</u>	<u>NHCONH(CH₂)₁₀CH₃</u>		
<u>114</u>	<u>NHCONH(CH₂)₁₀CH₃</u>		
<u>117</u>	<u>NHCONH(CH₂)₈CH₃</u>	<u>NHBoc</u>	
<u>118</u>	<u>NHCONH(CH₂)₈CH₃</u>	<u>NH₂</u>	
<u>119</u>	<u>NHCONH(CH₂)₉CH₃</u>	<u>NHBoc</u>	
<u>120</u>	<u>NHCONH(CH₂)₉CH₃</u>	<u>NH₂</u>	

32. (Previously presented) The compound according to claim 31 wherein said compound is selected from

Cpd #	R	R ¹	R ²
2	NHCONH(CH ₂) ₁₁ CH ₃	NH ₂	
3	NHCONH(CH ₂) ₁₀ CH ₃		
48	NHCONH(CH ₂) ₁₀ CH ₃	NH ₂	

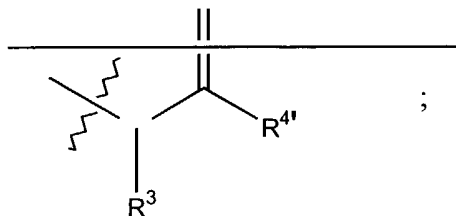
89	NHCONH(CH ₂) ₁₁ CH ₃		
118	NHCONH(CH ₂) ₈ CH ₃	NH ₂	
120	NHCONH(CH ₂) ₉ CH ₃	NH ₂	

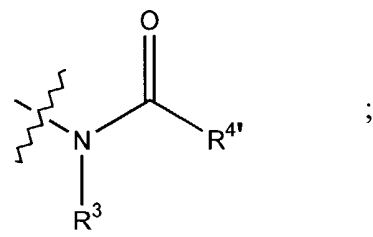
33. (Previously presented) The compound according claim 2, wherein R is selected from the group consisting of:



wherein each of R³ and R⁵ is independently selected from the group consisting of hydrido, alkyl, aryl, heterocyclyl and heteroaryl, and wherein R²⁰⁰ is aryl.

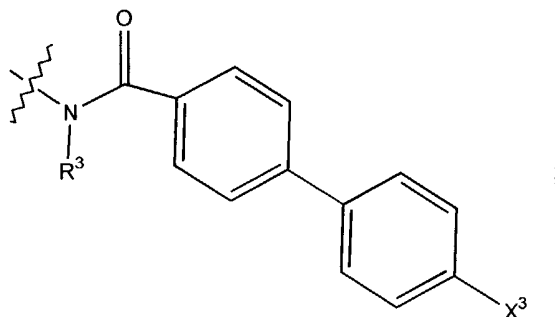
34. (Currently amended) The compound according to claim 33, wherein R is





and wherein $\text{R}^{4'}$ is a substituted phenyl.

35. (Previously presented) The compound according to claim 34, wherein R is



and wherein X^3 is chloro or trifluoromethyl.

36. (Previously presented) The method according to claim 23, wherein anti-folate agents are sulfonamides or synthetic antibacterials are selected from the group consisting of nitrofurans, methenamine mandelate and methenamine hippurate.